


DIAGRAM		PROJECT				LOCATION				AZIMUTH BY HOUR ANGLE METHOD													
TRUE NORTH  OBSERVER		ORGANIZATION				LATITUDE (ϕ)				LONGITUDE (λ)				STATION									
		MARK				INSTRUMENT (Number and type)				STANDARD TIME (Meridian)													
		CELESTIAL BODY (S)				WATCH FAST (-) SLOW (+)				WATCH COMPARED (Time)													
		DATE (YYYYMMDD)				OBSERVER				WEATHER													
		SET NR 1						SET NR 2						SET NR 3									
		TIME			HOR. ANGLE			TIME			HOR. ANGLE			TIME			HOR. ANGLE						
		HRS.	MIN.	SEC.	o	'	"	HRS.	MIN.	SEC.	o	'	"	HRS.	MIN.	SEC.	o	'	"				
Mean																							
SUN OBSERVATION For star observation, use factors enclosed in brackets								SET NR 1			SET NR 2			SET NR 3									
		1 Mean time of observation						HRS.	MIN.	SEC.	HRS.	MIN.	SEC.	HRS.	MIN.	SEC.							
		2 Watch correction ±																					
		3 Time Zone Correction (TZC) ±																					
		4 UT of observation (1+2+3)																					
		5 O^h Greenwich EQT [or Sid. T.] ±																					
		6 UT X var. EQT per hour [Sid. T. correction] ±																					
		7 (5+6) correct EQT [or G. Sid. T. (4+5+6)] ±																					
		8 (4+7) GAT [or RA]																					
		9 GHA in time (GAT-12h) [or (7-8)]																					
		10 GHA in arc																					
		11 Longitude, West (-), East (+) ±																					
		12 LHA (10+11)=t (or 360° -LHA=-t)																					
		SET NR 1			SET NR 2			SET NR 3			<div style="margin-bottom: 20px;"> $-\tan A = \frac{\sin t}{\cos \phi \tan \delta - \sin \phi \cos t}$ </div> <p> If LHA is greater than 180°, subtract from 360° and reverse sign. Obtain δ from Ephemeris. Check signs and quadrants by use of sketch. </p>												
t	±	o	'	"	o	'	"	o	'	"							Mean true azimuth to Mark						
Lat.(ϕ)	±																Grid correction ±						
Dec.(δ)	±																Grid azimuth to Mark						
Sin t	±																Magnetic azimuth to Mark						
Cos t	±																Magnetic declination E(-), W(+)						
Sin ϕ	±																						
Cos ϕ	±																						
Tan δ	±																						
-Tan A	±																						
A (E or W)		o	'	"	o	'	"	o	'	"													
Azimuth of S																							
_, Mark to S	-																						
Tr. Az. to Mark																							
COMPUTED BY						DATE (YYYYMMDD)						CHECKED BY						DATE (YYYYMMDD)					